

**WOTAN SYSTEMS***(Simplified joint-stock company)***EXOSKELETAL SYSTEM FOR BIOLOGICAL SEGMENT WITH  
PROPORTIONAL MOVEMENT AND EXOSKELETAL ASSEMBLY OF  
SUCH SYSTEMS****ABSTRACT**

The invention relates to an exoskeleton system comprising an exoskeletal load bearing structure consisting of a reference structure and at least one mechanical segment; means (11) for the acquisition of movements and movement wishes, consisting of means for measuring the effort arising from at least one biological segment as a function of time and means for detecting the direction of movements or movement wishes of said segments as a function of time; means (15) for the acquisition of the spatial position of the mechanical segments in relation to the reference structure; actuating means (19) ensuring the movement of said articulated mechanical segments: and control means (17) which are connected at an input to means for the acquisition of movements and positions and connected at an output to actuating means ensuring control thereof.

Figure for the abstract: **figure 2.**